

MicroVAX Diagnostic Monitor Release Notes

Order Number AA-GO3AS-TN

These release notes describe restrictions, undocumented features, and other essential information about the MicroVAX Diagnostic Monitor (MDM) Version 4.0, Release 129. These release notes supersede all other MDM documentation.

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Preface

These release notes describe new features, enhancements, and bug fixes for the MicroVAX Diagnostic Monitor (MDM) Version 4.0, Release 129 as they apply to diagnostic development.

Intended Audience

These release notes are intended for the following people:

- System managers who are installing MDM
- Individuals responsible for maintaining MicroVAX systems

Document Structure

These notes are organized as follows:

- Chapter 1 lists updates.
- Chapter 2 lists new features and enhancements.
- Chapter 3 lists problems and corrections.

Associated Documents

The following is a list of the available MDM documents:

- *MDM Programmer's Guide*
- *MDM Development Kit Installation Guide*
- *MDM User's Guide*
- *MDM Ethernet Server User's Guide*
- *MDM RA/RD Customer Release Notes*
- *MDM RA/RD Maintenance Release Notes*
- *MDM Hard Disk User's Guide*
- *MDM Reference Card*

Conventions

This book uses the following conventions:

KEY

Indicates a key on your keyboard.

CTRL/key

Indicates control keys. For example, Control C is shown as **CTRL/C**.

Chapter 1

Updates

This chapter updates information necessary to run MicroVAX Diagnostic Monitor (MDM).

1.1 General MDM Updates

This section updates hardware and installation requirements.

1.1.1 2M Byte System Support Restriction

This MDM release requires a minimum of 2M bytes of memory. The monitor uses approximately 1.5M bytes. Note that the average diagnostic size requires roughly 350K words of memory; if the memory requirements exceed the available memory, MDM will not run.

1.1.2 Remote Console

MDM remote console can be run only on one target system at a time from a particular host account. When a second remote session is initiated from the same account, either an exception occurs on one of the target systems or neither target system will run MDM correctly.

1.1.3 Device Diagnostic Support

Table 1-1 provides updates on device support.

Table 1–1: Device Diagnostic Support

Controller	Device	Revision	File Name
CPU	KA620	I	NAKAA
	KA630		
	KA640		
	KA650		
	KA655		
MEMORY	KA620	J	NAMSА
	MS630		
MEMORY	MS650	F	NAMTA
DPV11	LP25	G	NALPA
	LP26		
	LP27		
	LG01		
	LG02		
RQDX2 & RQDX3	RX50	Q	NARXA
	RD32		
	RD33		
	RD52		
	RD53		
KDA50–Q & KLESI	RD54	O	NAKDA
	RA81		
	RA82		
	RA70		
	RA60		
TQK50	RC25	I	NATKA
	TK50		
	TK70		
DEQNA	QNA/DELQA	O	NAXQA

Table 1–1 (Cont.): Device Diagnostic Support

Controller	Device	Revision	File Name
DLVJ1	–	D	NADLA
DZQ11 & DZV11	–	G	NADZA
DRV11–WA	–	I	NADRA
DRV11–J	–	E	NADRB
DPV11	–	G	NADPA
DMV11	–	I	NADMA
RRD50	–	I	NARRA
KMV11A (KMV1A)	–	F	NAKMA
KMV11B (KMV1B)	–	F	NAKMA
IEQ11	–	B	NAIEA
DHQ11	–	K	NADHA
CXY08	–		
CXA16	–		
CXB16	–		
CXF32	–		
DHF11	–		
DHV11	–		
DFA01	–	E	NADFA
VCB01	–	F	NAVCA
KWV11–C	–	F	NAKWA
ADV11–DA	–	G	NAADA
AAV11–DA	–	H	NAAAA
AAV11–C	–	B	NAAAC
ADV11–C	–	B	NAADC
AXV11–C	–	E	NAAXA
VCB02	–	F	NAVCB
DSV11	–	G	NADSA

Table 1–1 (Cont.): Device Diagnostic Support

Controller	Device	Revision	File Name
VSV11	VSV21-AA	E	NAVVA
	VSV21-CA		
	VSV90		
DRQ11-C	–	B	NADQA
LVN11	–	D	NALAA
LVN11	–	C	NALNA
TU81E	–	H	NATUA
TSV05	–	H	NATSA
DRQ3B	–	F	NAQBA
IBQ01	–	C	NAIBA
IAV11-A	–	C	NAIAA
IAV11-B	–	C	NAIAB
IDV11-A	–	C	NAIDA
IDV11-B	–	F	NAIDB
IDV11-C	–	C	NAIDC
IDV11-D	–	C	NAIDD
MIRA	–	G	NAMIA
KXJ11	–	H	NAKXA
ADQ32	–	F	NAAQA
RV20	–	F	NARVA
DESNA	–	D	NACQA
DTC-04	–	C	NADTA
IGQ11	–	B	NAIGA
KWB11-W	–	B	NAKWB
KWV11-W	–	B	NAKWB
POLARSTAR	–	C	NAQCA
GS03-WD-DHV11	–	A	NAGSA

Table 1–1 (Cont.): Device Diagnostic Support

Controller	Device	Revision	File Name
GS03–WD–DQZ11	–	A	NAGSB
LANCE	–	D	NALAN
DSSI	–	C	NADSI
VS550	–	C	NAVSA
KFQSA	RF30	E	NAKFA
DIV32		B	NADIA
DELIX ¹	–	D	NADXA
RQX05	–	C	NARQA

¹ Indicates diagnostics that are included on the media, but are not supported in the auto-configuration information. To use these diagnostics the custom configuration commands must be used.

1.1.4 MDM System Notes and Updates

You will find a Software Performance Report (SPR) form in each kit. These SPR forms provide two functions:

- The SPRs are your means of letting the software developers know about problems found in the product as quickly as possible.
- The SPRs provide a way for you to offer suggestions based on actual use of the product.

1.1.5 TK50 Load Times

Table 1–2 is a chart of TK50 and TK70 load times for MDM Versions 114 through 129. Load time is the length of time necessary for a system to load and configure the diagnostics for the individual devices in the system. The listed times do not include the length of time needed for the monitor to load initially (the elapsed time from the BOOT command to the display of the disclaimer).

Table 1–2: TK Load Times (in minutes)

Release	TK50	TK70	TK50	TK70	TK50	TK70	TK50	TK70
	(CONFIG 1)		(CONFIG 2)		(CONFIG 3)		(CONFIG 4)	
114	07:49	na*	06:50	na*	19:52	na*	09:30	na*
115	25:55	na*	39:44	na*	35:23	na*	14:21	na*
116	09:33	na*	12:21	na*	24:49	na*	12:19	na*
116A	11:21	na*	09:47	na*	25:59	na*	12:54	na*
118	10:25	na*	10:30	na*	29:46	na*	13:06	na*
120	10:12	06:55	10:11	07:01	31:02	23:21	13:15	07:55
121	07:30	04:59	06:04	05:57	17:49	15:22	07:40	05:55
122	06:18	05:08	06:22	05:07	19:04	16:28	07:48	06:03
123	07:26	05:11	06:29	05:12	19:41	16:42	09:17	06:10
124	09:36	07:00	09:17	06:50	21:55	18:52	11:08	08:18
125	10:05	07:40	10:10	07:30	22:25	21:04	12:12	08:45
126	09:47	07:09	09:42	07:03	23:25	21:11	11:20	08:30
127	09:31	07:08	09:36	07:00	24:02	21:23	11:27	08:24
128	08:03	07:21	10:11	06:20	23:29	20:26	11:07	07:38
129	09:12	06:33	08:25	05:49	23:11	19:31	na**	na**

* Load times are listed in minutes. Versions before 120 did not support TK70 drives. No comparisons can be made between those versions and versions between 120 and 129.

** As of Version 4.0, Release 129, Config 4 will not be supported.

Key to Configuration Devices

- Config 1 = CPU, MEM, DEQNA, RQDX2, DMV11, TK
- Config 2 = CPU, MEM, DEQNA, TK, TSV05, DMV11, KDA50, CXY08
- Config 3 = CPU, MEM, RQDX3, TK, DEQNA, DMV11, KDA50, RC25, DZV11, DZQ11, DPV11, KWV11–C
- Config 4 = CPU, MEM, DEQNA, RQDX3, TK, VCB02

The difference in load times on the same system between KA650 CPU and MicroVAX CPU is less than 3%. The KA650 is slightly faster than the MicroVAX. Thus, load times are not CPU-dependent.

1.1.6 Order Number Reference

Table 1–3 lists order numbers for current diagnostics.

Table 1–3: Order Number Reference

Part Number	Title
ZNA01–C3	CUSTOMER DIAGNOSTICS ON RX50
ZNA01–C5	CUSTOMER DIAGNOSTICS ON TK50
ZNA02–GZ	MV DIAG MDM ENET CUST DOC
ZNA02–P5	MV DIAG MDM ENET CUST TK50
ZNA02–PH	MV DIAG MDM ENET CUST RL02
ZNA02–PM	MV DIAG MDM ENET CUST 1600 bpi MT
ZNA03–H5	MV DIAG DEVELOPMENT KIT TK50
ZNA03–HM	MV DIAG DEVELOPMENT KIT 1600 bpi
ZNA03–GZ	MV DIAG DEVELOPMENT KIT DOC
ZNABX–C3	MAINTENANCE DIAGNOSTICS ON RX50
ZNABX–C5	MAINTENANCE DIAGNOSTICS ON TK50
ZNABX–GZ	MAINTENANCE DOCUMENTATION
ZNA07–H5	MV DIAG MDM ENET MAINT TK50
ZNA07–HH	MV DIAG MDM ENET MAINT RL02
ZNA07–HM	MV DIAG MDM ENET MAINT 1600 bpi MT
ZNA07–GZ	MV DIAG MDM ENET MAINT DOC
ZNA08–C5	MV DIAG ULTRIX ENET MAINT TK50
ZNA08–CM	MV DIAG ULTRIX ENET MAINT 16 bpi MT
ZNA08–GZ	MV DIAG ULTRIX ENET MAINT DOC
ZNA09–GZ	MV DIAG ULTRIX ENET CUST DOC

Table 1–3 (Cont.): Order Number Reference

Part Number	Title
ZNA09–P5	MV DIAG ULTRIX ENET CUST TK50
ZNA09–PM	MV DIAG ULTRIX ENET CUST 1600 bpi MT
ZNA10–C5	MV DIAG RA/RD CUST DIAG TK50
ZNA10–CM	MV DIAG RA/RD CUST DIAG 1600 bpi MT
ZNA11–GZ	MV DIAG RA/RDS MAINT DOC
ZNA11–H5	MV DIAG RA/RD MAINT DIAG TK50
ZNA11–HM	MV DIAG RA/RD MAINT DIAG 1600 bpi MT

1.1.7 Automatic Distribution of Diagnostics

A diagnostic contact has been designated for each geographic area within the U.S. (See Table 1–4.) Field personnel should work with their area contact for all diagnostic needs. This includes additions and deletions to the ADS mailing lists for all VAX, PDP–11, MicroVAX, MICRO–11, and KLAD systems, and any newly released system. They should also work with their area contact to resolve problems.

Table 1–4: Area Contacts for Diagnostic Distribution

Area	Contact	Direct	DTN	ENET Address
CENTRAL	CORINE GORDON	312-640-0301	421-5640	DECMail::GORDON
CSC-ATLANTA	ESTHER CREEK	404-953-6174	435-3293	DECMail@IPO
CSC-COLORADO	FRANK MENDEZ	719-548-5587	522-5587	NEXUS::MENDEZ
EAST CENTRAL	KAREN PICKETT	313-347-5406	471-5406	USFHSL::PICKETT
IN-DEC	MADDY VEGA	508-467-8274	262-8274	SENIOR::VEGA
MID-ATLANTIC	PAT KOZLOWSKI	215-283-4241	328-4241	DECMail@PHH
NEW YORK	BERNIE COUILLARD	212-884-6780	335-6780	OBIWAN::COUILLARD
NORTHEAST	PEARL MAGIERA	508-441-6624	288-6624	NERSW5::MAGIERA
SOUTH CENTRAL	CAROLYN DUERKSEN	214-702-4606	483-4606	DPOMAI::DUERKSEN
SOUTHERN	GWEN BRINKLEY	404-257-2455	351-2455	ODXIE::GBRINKLEY
SOUTHWEST	PEGGIE ROSE_KOZO	714-261-4418	NONE	SWAM1::ROSE_KOZO
WESTERN	SUSAN BROWN	408-496-3014	521-3014	WR1FOR::BROWNSU
GLA	SONNY NEWSON	719-548-5499	522-5499	BSS::NEWSON

1.1.8 MDM Boot Capabilities

Table 1–5 shows MDM boot and diagnostic load capabilities for media and system. The appropriate kits must be ordered.

Table 1–5: MDM Boot Capabilities

Boot Media	MicroVAX/rtVAX	DECstation 5400
RX	yes	na
TK	yes	yes
Network	yes	yes*
Hard Disk	yes	no

* Host boot node can be on ULTRIX or VMS host, provided DECnet is installed.

1.2 MDM Diagnostic Notes and Updates

All diagnostics have been rebuilt and are incompatible with previous versions of MDM. The diagnostics are source-compatible only. The following diagnostics have been revised for Version 4.0, Release 129:

- NAAAAH
- NAADAG
- NADIAB
- NADTAC
- NAKDAO
- NAKFAE
- NAMIAG
- NAQBAF
- NARQAC
- NARRAI
- NARVAF
- NATKAI
- NATSAJ
- NATUAH
- NAVVAF
- NAXQAO

Chapter 2

Enhancements and New Features

This chapter discusses enhancements and features that were added to MDM Version 4.0, Release 129. For detailed information the new features, refer to the *MDM User's Guide* and the *MDM Programmer's Guide*.

2.1 Documentation

The following documents have been updated for Version 4.0, Release 129.

- *MDM Development Kit Installation Guide*
- *MDM Ethernet Server User's Guide*
- *MDM Hard Disk User's Guide*
- *MDM Programmer's Guide*
- *MDM Reference Card*
- *MDM User's Guide*

2.2 Release Notes

Release Notes for Version 4.0, Release 129, are included as part of maintenance kits media.

2.3 Extended Configure and Load Procedures

The maximum number of diagnostics MDM is currently able to load has been increased from 30 to 40.

2.4 DSL Routines

Three new routines write information to the console terminal:

- `DSL$WRITE_ERR_TEXT[_LITERAL]`—write up to three error messages to the console terminal and log them
- `DSL$WRITE_WARNING_MESSAGE`—writes a warning message and identifying error number on terminal and logs it

2.5 Error Messages in APT

MDM provides more information for APT errors. In earlier releases, it is difficult to determine whether an error is being reported by the diagnostic or by MDM. In Version 4.0, Release 129, MDM indicates if the diagnostic or MDM is generating the error message.

2.6 Latest Pass Count

Two Command Line Mode commands were added to provide information on how many times a diagnostic has been run. The `SHOW TOTAL_PASSES` command displays the running total number of passes for each diagnostic that has been run since the total pass count was last cleared. The command `CLEAR TOTAL_PASSES` resets the total pass count to zero.

2.7 MDM ULTRIX/DECnet Kits

As of Version 4.0, Release 129, the ULTRIX/DECnet Customer and Maintenance Kits contain only one system image and all the supported diagnostics. Prior to Release 129, the ULTRIX kits, each with three system images, included diagnostics as part of the system image. In Version 4.0, Release 129, the user can down-line load diagnostics from an ULTRIX system. For detail information, refer to the *MDM Ethernet Server User's Guide*.

Chapter 3

Problems and Corrections

Monitor problems are subdivided into two sections:

1. Miscellaneous Problems
2. Diagnostic-Based Problems

3.1 Miscellaneous Problems

- RC25—nakdal—Functional tests can cause fatal bugcheck

When running functional tests with pass set to 0 on the KDA50 diagnostic running on the RC25 with the KA650, the following fatal bugcheck occurs:

```
** Fatal Bugcheck, uVDOS V3.0. UNXINTEXC, unexpected interrupt
                                     or exception
```

```
Job 000300D2, Program: nakda
```

```
    R0      ...    R4      R5      R6      R7
00000001 ... 00000005 00000001 00000000 00000005
7fffffff ... 000011ea 7fffffd18 80055bf0 80004e04
    R8      ...    AP      FP      SP      PC
```

```
KERNEL/INTERRUPT STACK
```

```
    80055BF4 04170000
    80055BF8 000096D4
    80055BFC 000000A0
```

```
System shutdown complete - use console to halt system
```

This occurs on different pass numbers ranging from 1 to 137; however, it usually occurs after running test 1.

- UNITS ENABLE and DISABLE fail if unit # >15

The UNITS command in MDM allows the user to ENABLE or DISABLE individual device units. Devices have unit numbers anywhere from 0 to 1024. However, if either the UNITS ENABLE or the UNITS DISABLE

command is entered with a unit number greater than 15, the following message is returned:

```
Invalid unit number, Unit number range 0-15
```

and the user has no way to either disable or enable any units declared by any devices if the unit numbers are greater than 15.

- Reset config takes 1 hour w/rv20 on NA04 image

CONFIGURATION: microvax II,mem,tk50,rqdx3,cxf32,4 rv20's

When loading the above configuration via the NA04A image (TK50 tape drive), if one of the RV20's is connected in, and a configuration is done, it works fine until a RESET CONFIG is entered. When the RESET CONFIGURATION command is entered followed by a Return, the system apparently suspends processing. However, after about 1 hour, the MDM prompt appears. With this configuration the user should reboot the system rather than reset configuration.

- RD boot off DSSI hangs after Reset Config/Config

A new Release 128 feature is the ability to boot the RA/RD/RF kits off the DSSI port. The monitor boots up (MDMDIA.SYS image) and loads the diagnostics correctly on the initial load. However, when you perform a RESET CONFIGURATION either via CLM (RESET CONFIGURATION command) or Menu Mode (Menu 5.4 - Activate Menu) followed by a CONFIGURE command, the monitor displays the following message:

```
The system is preparing for testing.
```

```
This may take several minutes.
```

```
Please wait...
```

The system must be rebooted in order for testing to continue.

3.2 Diagnostic-Based Problems

- LANCE—diagnostic does not include device name in setup

The LANCE diagnostic does not include the device name within its SETUP message.

- DZV11/nadzaf—Fails exerciser test 1 with DTQNA in config

When the DZV11/DZQ11/DTQNA is configured in a system, a bus timing problem occurs. The failure happens when the DZV11 is the second DZA device. This failure occurs only after the initial boot, not

after a RESET CONFIG or CONFIGURE. This failure has also been observed when the DZV11 is the first DZA device in the configuration, but the frequency of occurrence is less.

The failure has been observed when the bus is set up as follows:

nakaa	160000	000	
namta	160000	000	
narxa	172150	154	
natka	174500	260	
nadza	160100	300	dzq11
nadza	160110	310	dzv11
nadha	160500	320	
nazqa	172570	330	dtqna
naxqa	174440	120	

- DTQNA/nazqaa—cumulative pass count as printed is confusing

A progress message printed out during the running of exerciser and functional tests gives the total count of the number of passes of all tests which have been run. This counter is incremented each time the diagnostic runs a pass of any test and prints the message after every 10 passes. The monitor prints out the following messages, which could confuse the operator about how many passes were executed:

```
pass 1 test 1 started
pass 2 test 1 started
the test has run 10 passes
```

- DSSI

When you run the verify test 4 of the DSSI and have the drive off line, the test fails. The verify tests are supposed to run whether or not a drive is attached and on line. This is only a READ test, but still needs the DUP code to run, which does not happen if the drive is off line.

- KDA50-QA

The RA82 drive must be spun up in order for the verify mode test to pass. If they are not ready, the following error message appears:

```
An unrecoverable error has occurred on drive number 0.
Error occurred during MSCP Online command.
MSCP Command Reference Number: 00000003.
MSCP Command status: Drive unit offline
MSCP status subcode: No volume mounted or run/stop switch is off

KDA50QA - Error Number 47 29-JUN-1988 08:00:00.48
Drive became "unit-offline" during a MSCP operation.
Fixed media disk drive
KDA50QA failed.
```

- **KDA—Fatal bugcheck during config if nonexistent CSR used**

When using a KA650 CPU without a KDA board and connecting it to a nonexistent CSR address for a KDA followed by a CONFIGURE the system command, the diagnostic should look to see if a device is at the specified address. If there is no response, MDM disconnects itself from the CSR address for the KDA. This does work with a Microvax CPU, but produces a fatal bugcheck if the CPU is a KA650. This also happens with a TK50 device.

The following are the detail messages produced.

```
***** Fatal Bugcheck, VAXELN V3.2 FATLMEMERR, unrecoverable
                                         memory error
```

```
current job = 000300c2
```

```
Program Name= NAKDA
```

```
Press return to view remainder of bugcheck info.....
```

```
Register Dump
```

```
R0 = 8018ac78
```

```
  .
  .
  .
```

```
PSI=041d0008
```

```
Kernel/Interrupt Stack
```

```
800747f8../....
```

```
system shutdown complete
```

- **MIRA**

When running utility tests 3, 4, or 5 on the MIRA and after the individual general SETUP messages are displayed, the user is prompted to enter a 1 or 2 and press Return, corresponding to the particular mode (maintenance or installation) that the user is in.

If the user enters an out-of-range number (either 0 or greater than 2), the cursor drops to the beginning of the next line and waits there. Then, if the user enters either a 1 or 2 and presses Return, the test continues according to which value was entered.

- VSV21—set up message does not include device name

The setup message for the VSV21 does not include the device name within it. This can be confusing when starting up many devices which all display their setup messages—it is not clear which device is issuing the prompts. The setup message for the VSV21 is as follows:

```
PLEASE ENSURE THAT LOOPBACK CONNECTORS ARE FITTED
Then press Return to continue...
```

Instead it should include the device name within the message, possibly as follows:

```
PLEASE ENSURE THAT LOOPBACK CONNECTORS ARE FITTED TO THE VSV21
Then press Return to continue...
```

- DELIX—Fails Verify/Functional test

When running in Verify/Functional Mode, using release 126V, 127E, or 128V, DELIX failures occur as follows:

1. Error #19 - Shared memory error. Bad status read back.
2. Error #15 - 30 Ms interrupt timed out. M3114 PBX line card.

The other modes of testing seem to work okay. Two methods of "connecting" the diagnostic were used. One was to connect it over the TK CSR/VECTOR, and the other method was to connect it at the next available CSR/VECTOR locations.

- LNV11—Diagnostic does not declare any service exercisers

The current revision (C rev) of the LNV11 diagnostic does not declare the required service mode exerciser tests. This causes problems when running the diagnostic from the service menu mode. If you try to run the "exercise the system" selection from within the service menu, the diagnostic fails, because no service mode exerciser tests were declared. This also causes similar problems when manufacturing is running the LNV11 under APT, because it defaults to testing the service mode exercisers also.

- ADV11D-A—Gets fatal bugcheck with utility 5 and 6

When testing the utilities for the ADV11D-A, tests 5 and 6 are looking for a CSR of a second device. Since the device is not a part of this setup, "Ctrl/C" is typed and then the HALT command is used to exit the test. The system responds with the following message and then crashes:

Fatal bugcheck, VAXELN V3.2 FATLMEMERR, unrecoverable
memory error

Current Job = 000300c2

Program Name = NAADA

Test 5 of the utility is "D/A-A/D loopback test"

Test 6 of the utility is "Real time clock start test"

- **AAV11D**—Util 12 causes FATAL BUGCHECK when CTRL/C, HALT

In a system with a KA640, DSSI, LANCE, DESQA and AAV11D, if Utility test number 12 is run on the AAV11D diagnostic, the user is prompted as follows:

Enter the base CSR of the kwv11-C in use(default 170420 octal):

If the user then presses Ctrl/C - HALT, a VAXELN fatal bugcheck occurs as follows:

**** Fatal Bugcheck, VAXELN V3.2 FATLMEMERR, unrecoverable
memory error

Current Job = 300d2

Program name = NAAAA

and then the registers get dumped.

This bugcheck also occurs if, at the above prompt, instead of a Ctrl/C HALT, the user enters the addresses 160000—160004. If the user enters any other incorrect address, then a message appears asking the user to enter another address. This did not occur on a MicroVAX II system.

- **DIV32**—Diag disables if bulkhead connector is not connected

If the DIV32 is run without being connected to its I/O bulkhead, it will fail its tests. However, the diagnostic will then disable with the VAXELN exception number %x 47c (arithmetic trap, integer overflow).

For example, when verify exerciser test 1 is run on the DIV32, it will fail as follows:

DIV32A - Error number 1001
Verify Mode Exerciser failed
bad configuration. I/O panel or bable missing

Failed to complete command (no interrupt)

DIV32A - Error Number 1055
Verify Mode Exerciser failed
DIV32-M or its cable lit (cable + io panel)

Timed out waiting for response

DIV32A - Error Number 1058

Verify Mode Exerciser failed

DIV32-M or its cable lit (cable + io panel)

It continues to display additional errors (# 1065 and 1057), followed by the message:

DIV32A failed, testing terminated

The diagnostic is disabled with message %x47c. Subsequently, You must either issue a RESET CONFIG command. In order for testing to continue on the diagnostic, CONFIG has to be performed or the monitor has to be rebooted.

The failure messages clearly state the problem; however, the diagnostic should not disable.

This problem does not seem to be CPU-dependent, because the failure does disable the same way when run on a MicroVAX II.

- IGQ11—Does not have a Service Mode Exerciser

The IGQ11 does not have a Service Mode Exerciser Test, as stated in the *MDM Programmer's Guide*. This results in the IGQ11 not being continuously exercised with the Service Menu #4 or Menu Mode #2 Selection "Exercise system continuously".

- NALAA—LPS40 Fails Utility Test 2

If the device is not connected, the diagnostic Utility Test #2 "Print Engine Emulator Test" fails. The operator is not informed nor is the operator afforded an opportunity to connect the Emulator Test Device.

- NALAA—LPS40 Fails Utility Test 4

The diagnostic Utility Test #4 "Print Engine Emulator Test" fails without advising the operator that the test is for a *duplex printer only*.

- IGQ11—Ctrl/C HALT during functional test disables device

The IGQ11 disables itself. If a "CTRL/C HALT" is issued during the IGQ11 Functional Test, the next time that 2 "Relocation Memory Test" or Functional Test 4 "Shared Memory Address" is run the IGQ11A disables itself. Both test are Verify Mode Tests. A SHOW DISABLE command indicates that the monitor disabled the device as a result of an "ELN NO ACCES ERROR"

- KDA50/RC25—diag will not allow Ctrl/C during Funct Test 2

The KDA50 diagnostic fails when the user tries to enter Ctrl/C Mode during Functional Test 2, which checks to see if the device can interrupt at various raised IPLs. This test takes about 20 seconds to complete. The user cannot enter Ctrl/C Mode while running this test. Users do not seem to be able to enter Ctrl/C Mode until the test is over. If users are running Functional Test 2 with passes set to zero and repeatedly press Ctrl/C, the user might get into Ctrl/C mode after a while, but Ctrl/C Mode behaves unpredictably.

- VSV21—fails Verify Mode Test 4 if drive offline

Problems occur when exercising the VSV21 and VS550 together on a system. There is no problem when exercising the VSV21 alone. The workaround is to run the VSV21 individually under service mode when a VS550 is present in the system configuration.

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Release Notes
AA-GO3AS-TN

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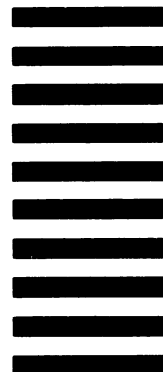
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